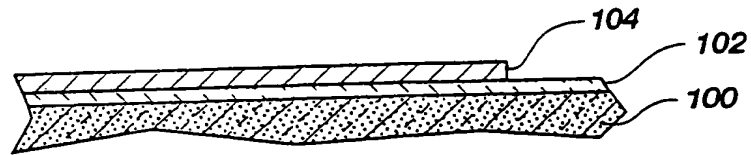


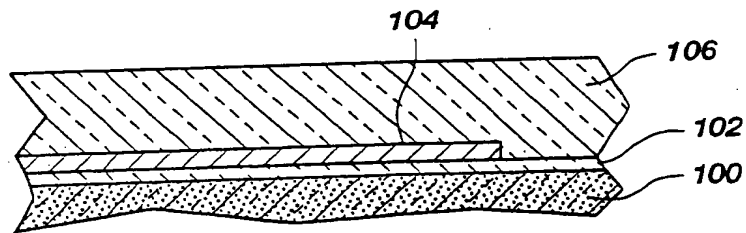
TITLE: METHODS OF FABRICATING SEMICONDUCTOR  
SUBSTRATE-BASED BGA INTERCONNECTION

Inventor: Salman Akram  
Serial No.: Not Yet Assigned  
Docket No.: 3091.5US

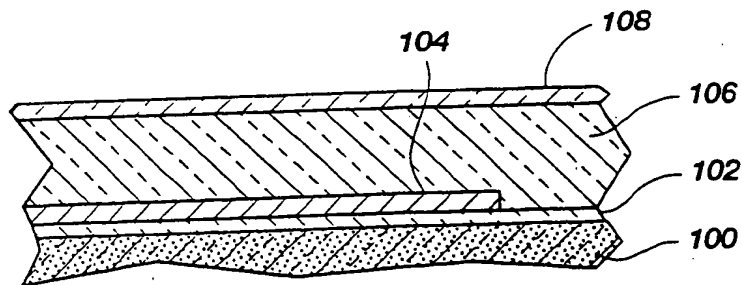
1/11



**Fig. 1**



**Fig. 2**

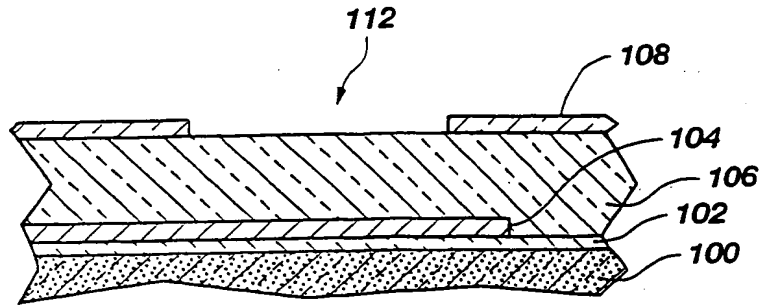


**Fig. 3**

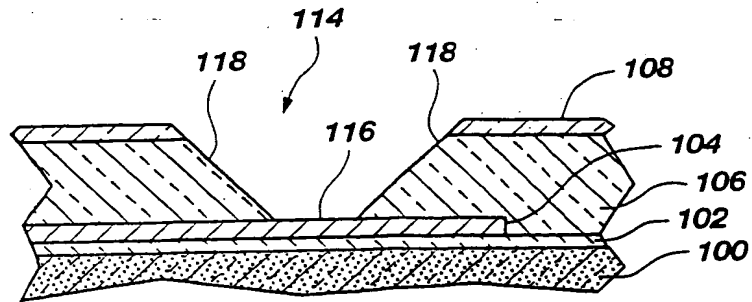
TITLE: METHODS OF FABRICATING SEMICONDUCTOR  
SUBSTRATE-BASED BGA INTERCONNECTION

Inventor: Salman Akram  
Serial No.: Not Yet Assigned  
Docket No.: 3091.5US

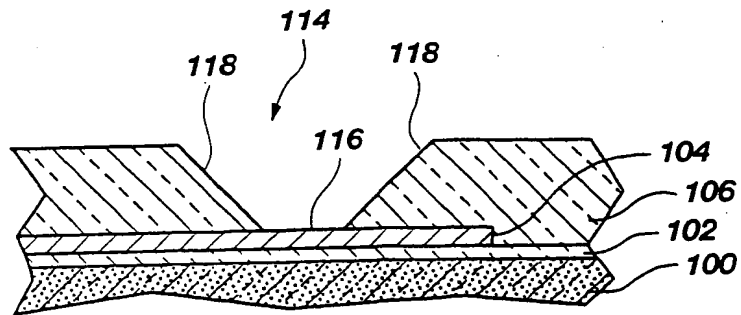
2/11



**Fig. 4**



**Fig. 5**

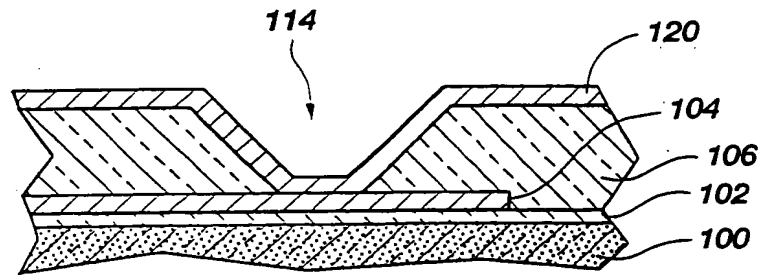


**Fig. 6**

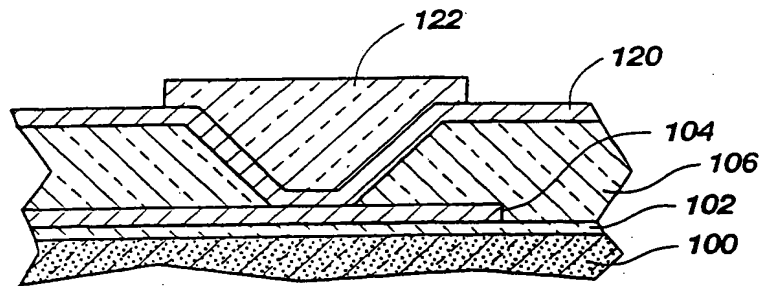
TITLE: METHODS OF FABRICATING SEMICONDUCTOR  
SUBSTRATE-BASED BGA INTERCONNECTION

Inventor: Salman Akram  
Serial No.: Not Yet Assigned  
Docket No.: 3091.5US

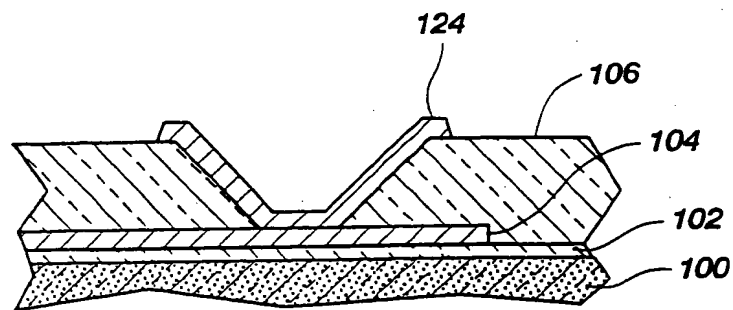
3/11



**Fig. 7**



**Fig. 8**



**Fig. 9**

TITLE: METHODS OF FABRICATING SEMICONDUCTOR  
SUBSTRATE-BASED BGA INTERCONNECTION

Inventor: Salman Akram  
Serial No.: Not Yet Assigned  
Docket No.: 3091.5US

4/11

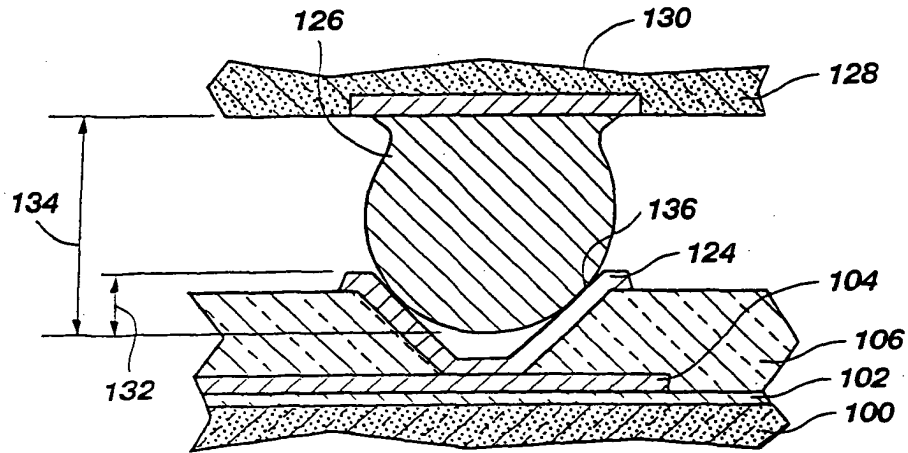


Fig. 10

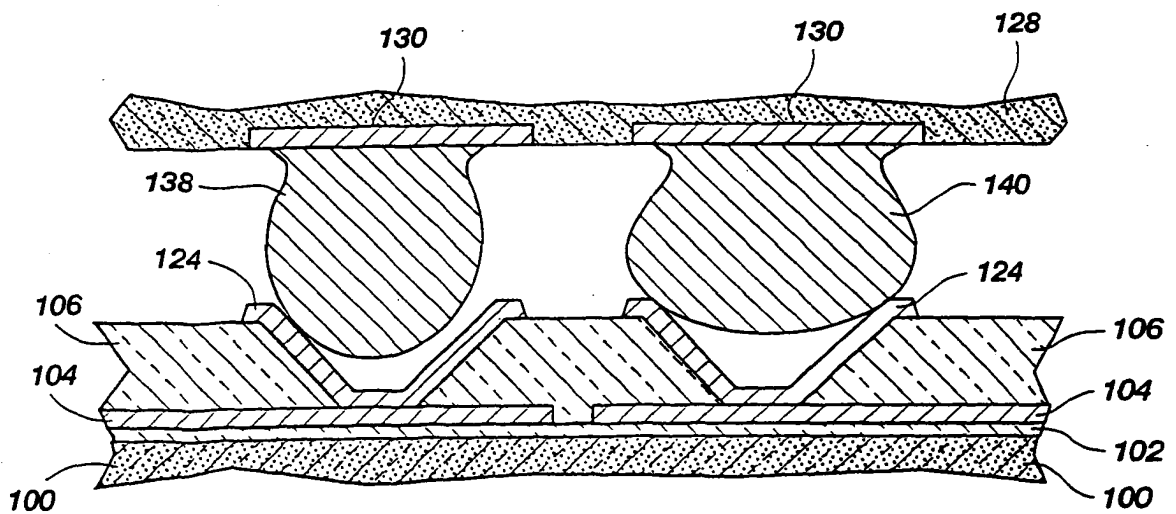
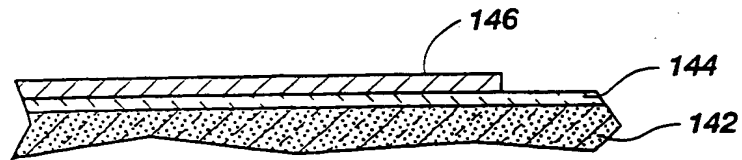


Fig. 11

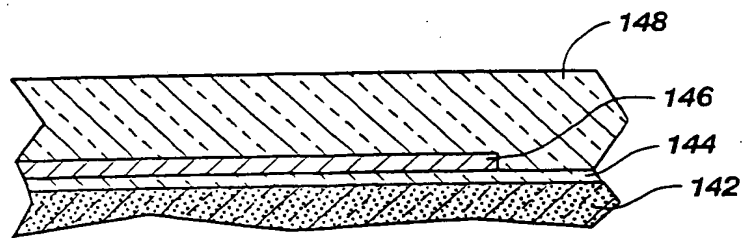
TITLE: METHODS OF FABRICATING SEMICONDUCTOR  
SUBSTRATE-BASED BGA INTERCONNECTION

Inventor: Salman Akram  
Serial No.: Not Yet Assigned  
Docket No.: 3091.5US

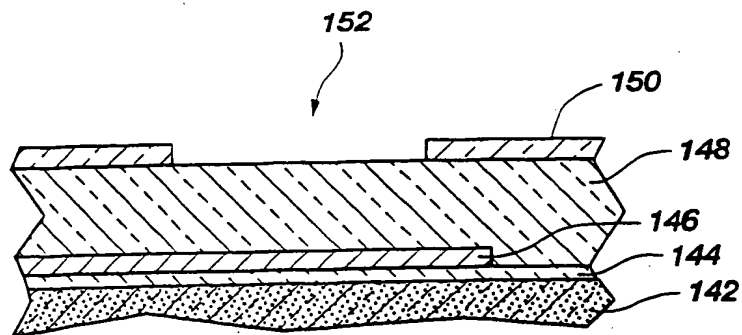
5/11



**Fig. 12**



**Fig. 13**

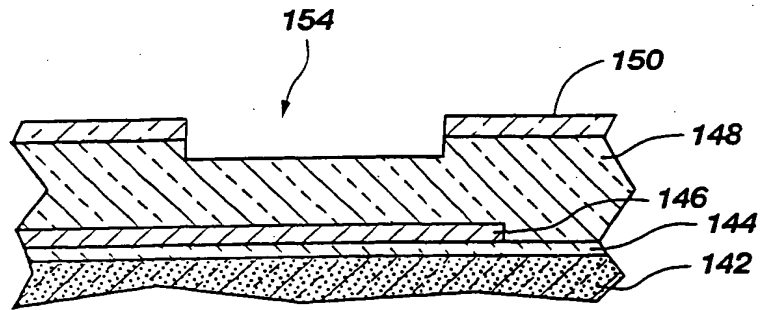


**Fig. 14**

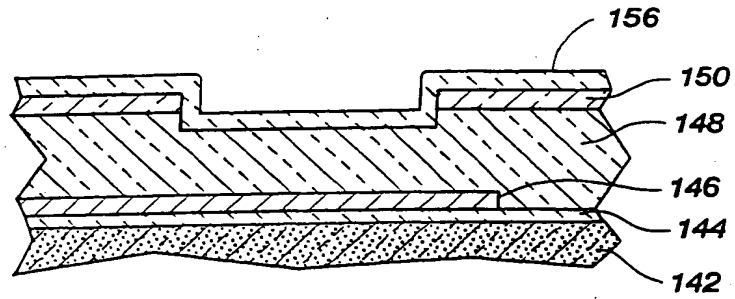
TITLE: METHODS OF FABRICATING SEMICONDUCTOR  
SUBSTRATE-BASED BGA INTERCONNECTION

Inventor: Salman Akram  
Serial No.: Not Yet Assigned  
Docket No.: 3091.5US

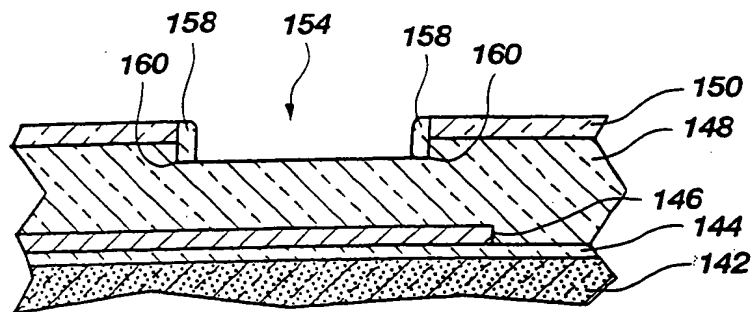
6/11



**Fig. 15**



**Fig. 16**

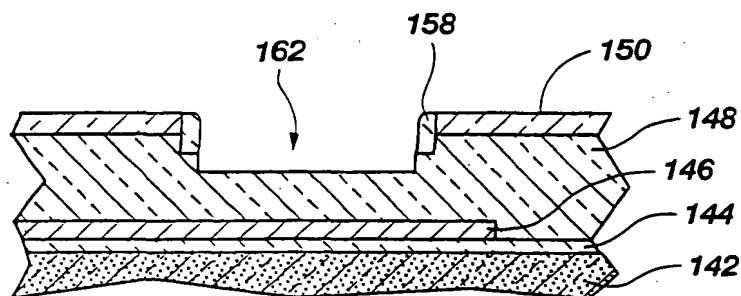


**Fig. 17**

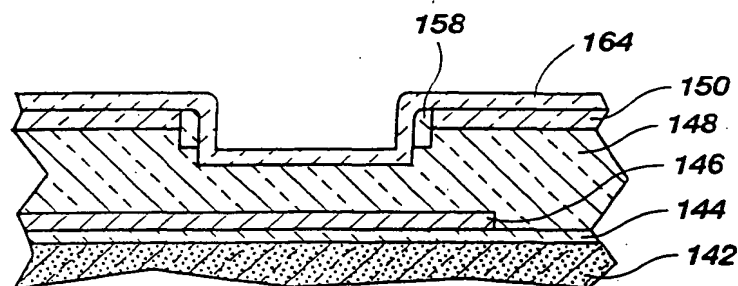
TITLE: METHODS OF FABRICATING SEMICONDUCTOR  
SUBSTRATE-BASED BGA INTERCONNECTION

Inventor: Salman Akram  
Serial No.: Not Yet Assigned  
Docket No.: 3091.5US

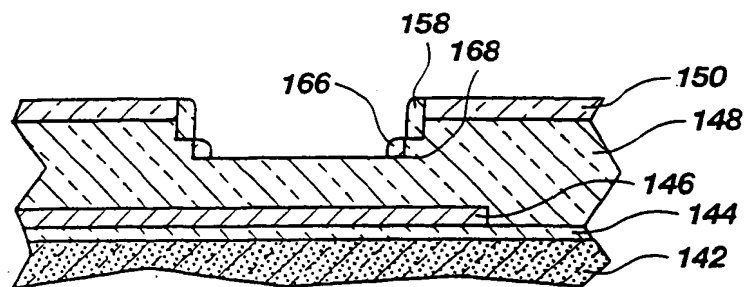
7/11



**Fig. 18**



**Fig. 19**

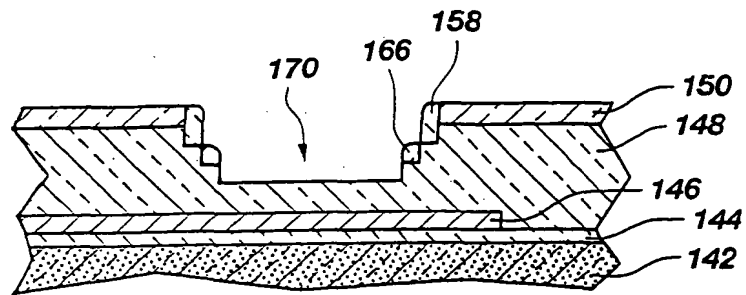


**Fig. 20**

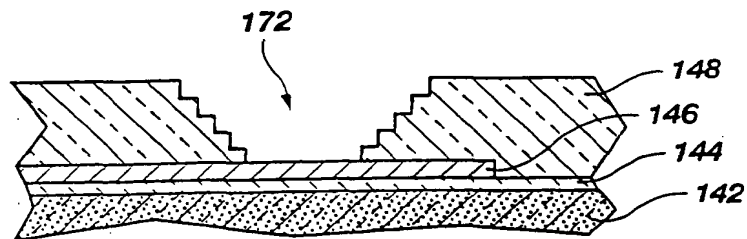
TITLE: METHODS OF FABRICATING SEMICONDUCTOR  
SUBSTRATE-BASED BGA INTERCONNECTION

Inventor: Salman Akram  
Serial No.: Not Yet Assigned  
Docket No.: 3091.5US

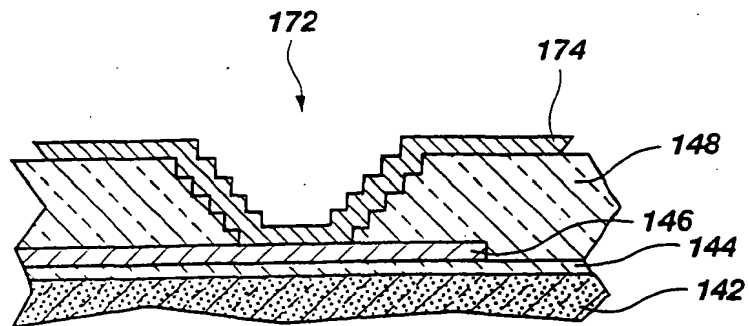
8/11



**Fig. 21**



**Fig. 22**



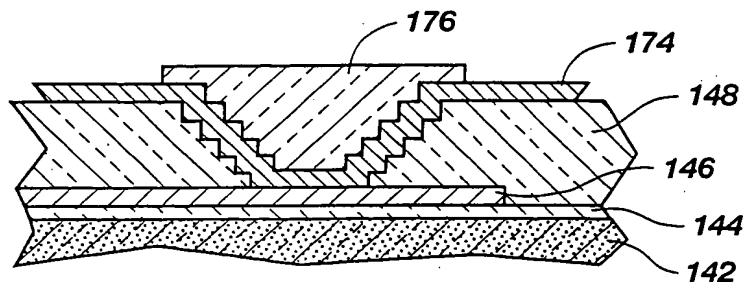
**Fig. 23**



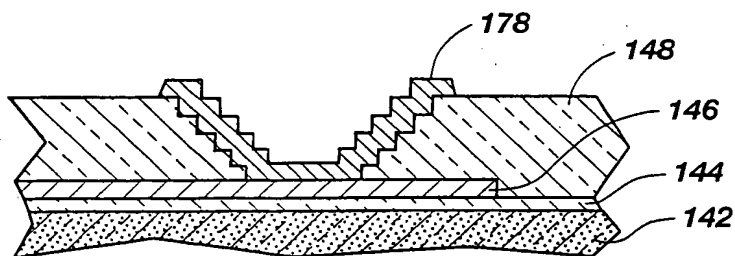
TITLE: METHODS OF FABRICATING SEMICONDUCTOR  
SUBSTRATE-BASED BGA INTERCONNECTION

Inventor: Salman Akram  
Serial No.: Not Yet Assigned  
Docket No.: 3091.5US

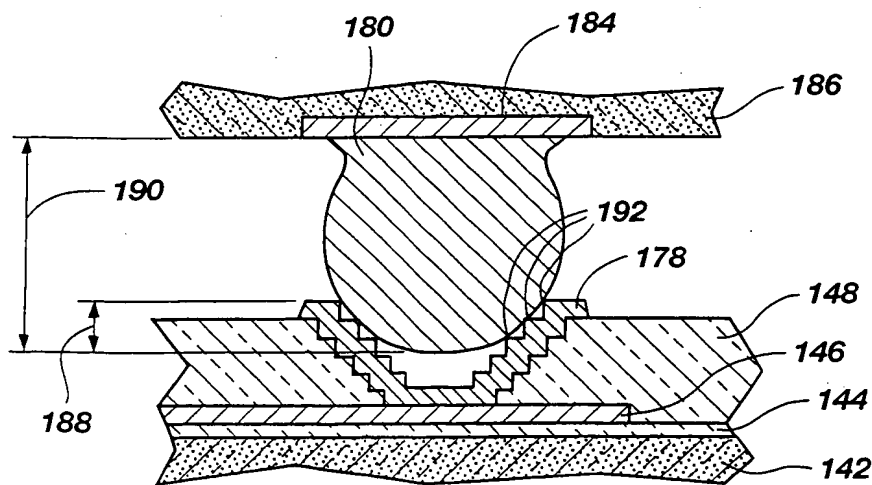
9/11



**Fig. 24**



**Fig. 25**



**Fig. 26**

TITLE: METHODS OF FABRICATING SEMICONDUCTOR  
SUBSTRATE-BASED BGA INTERCONNECTION

Inventor: Salman Akram  
Serial No.: Not Yet Assigned  
Docket No.: 3091.5US

10/11

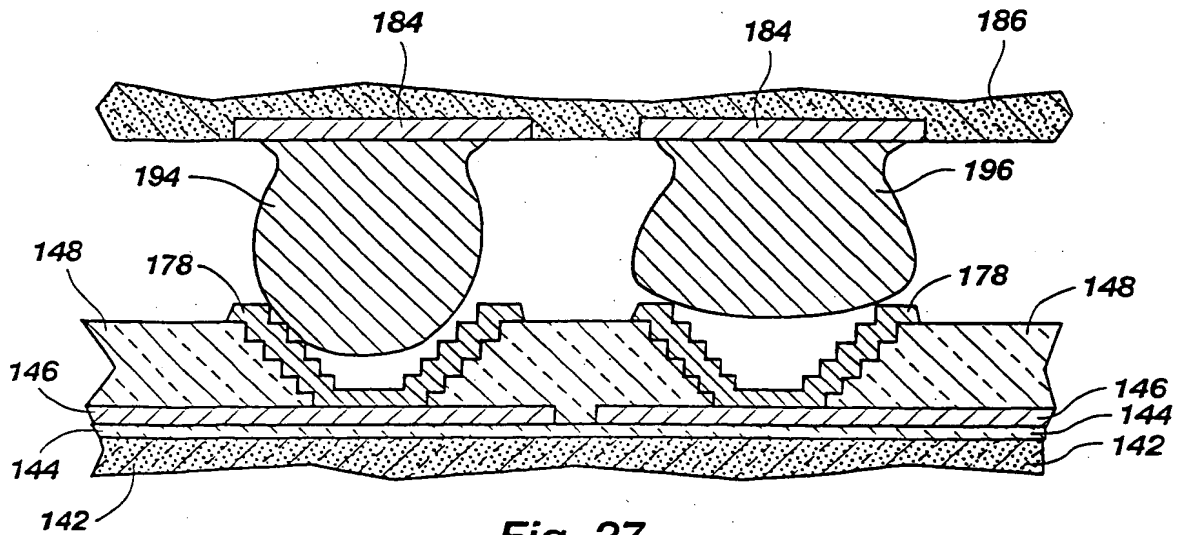


Fig. 27

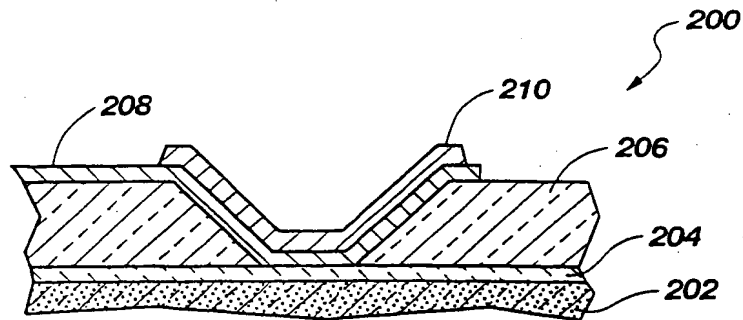


Fig. 28

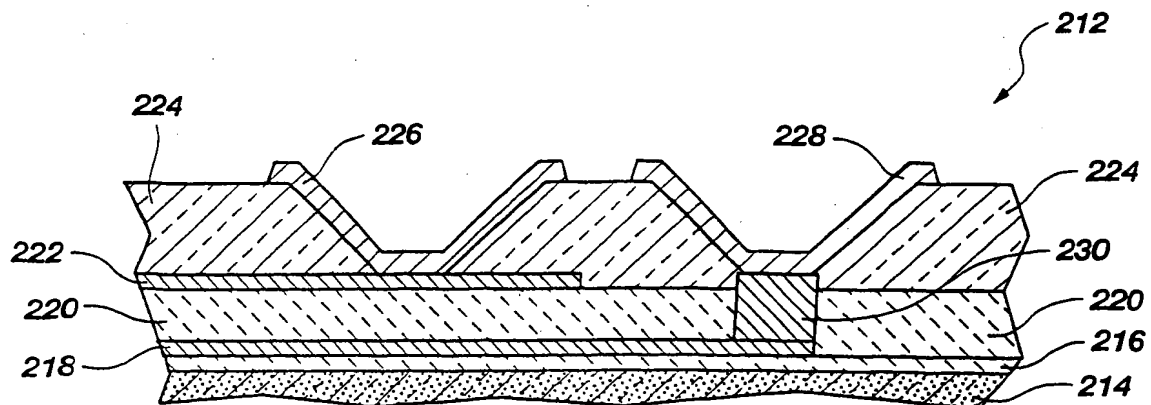
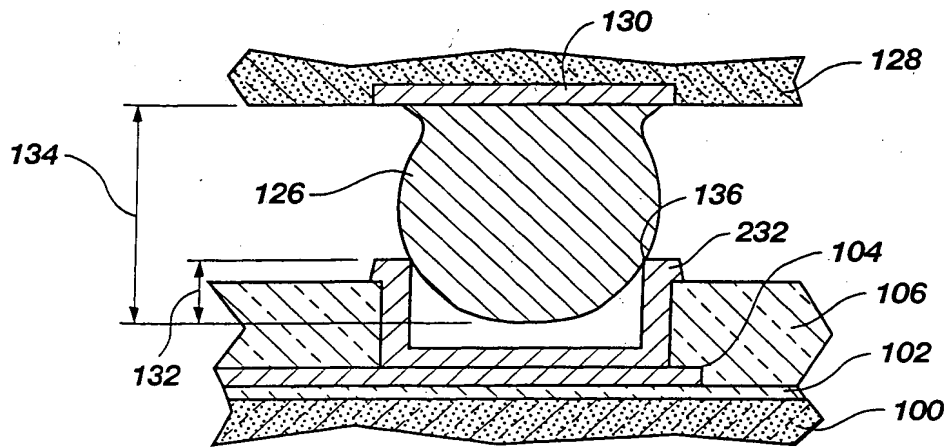


Fig. 29

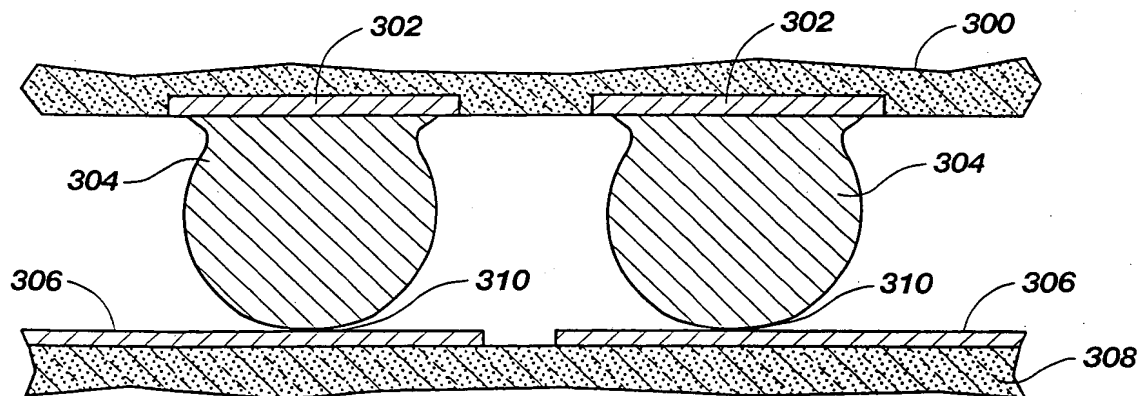
TITLE: METHODS OF FABRICATING SEMICONDUCTOR  
SUBSTRATE-BASED BGA INTERCONNECTION

Inventor: Salman Akram  
Serial No.: Not Yet Assigned  
Docket No.: 3091.5US

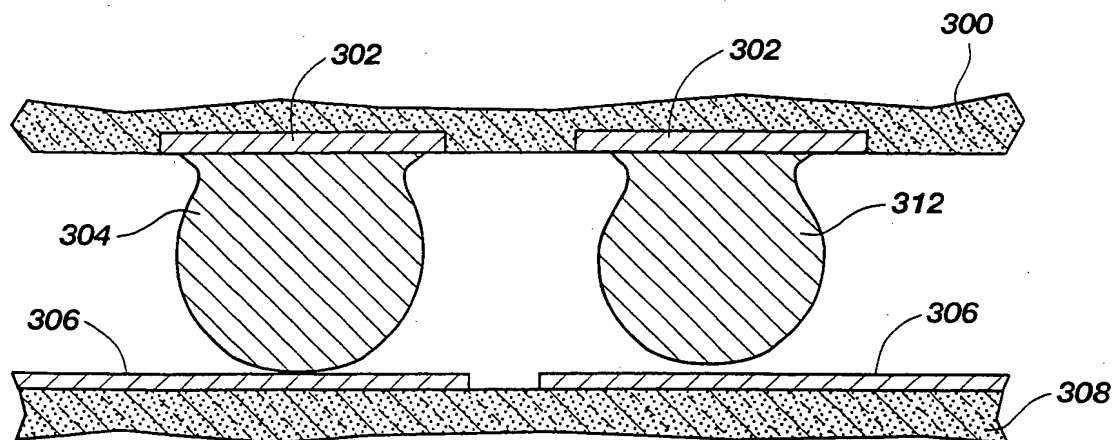
11/11



**Fig. 30**



**Fig. 31**  
**(PRIOR ART)**



**Fig. 32**  
**(PRIOR ART)**